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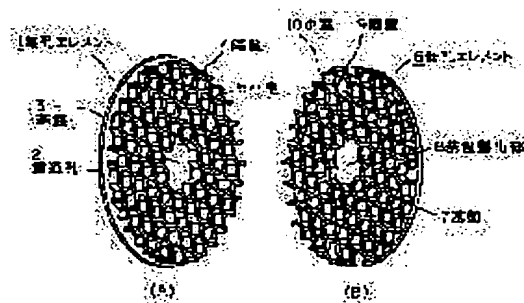
**MINE KENJI**

## (54) MANUFACTURE FOR CARBONIC ACID SOLUTION

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To dissolve a large amount of carbon dioxide gas uniformly in a liquid by a method wherein an element having hole and element having no hole, in which a large number of open-type small chambers are formed, are provided, and carbon dioxide gas and liquid are introduced into a cell in which these elements are arranged so that the chambers thereof are oppositely oriented one to the other in nonaligned relationship.

**SOLUTION:** In an element having hole 1, partition walls 4 are formed on one side of base plate 3 having a through hole 2 in its center to form a large number of open-type small chambers 5, while in an element having no hole 6, a base-plate exposed part 8 is formed at the center of one side of a base plate 7 and partition walls 9 are formed around the part 8 to form a large number of open-type small chambers 10. These elements 1, 6 are arranged so that the side of the element 1 on which the partition walls 4 are formed is oriented oppositely to the side of the element 6 on which the partition walls 9 are formed in such a manner that the chambers 5 are not aligned with the chambers 10 to one another, thereby to define cells. And carbon dioxide gas and liquid is introduced into the cells through the through hole 2 to cause the gas and liquid to flow against the part 8 and pass successively through the chambers 5,



10 to dissolved the gas in the liquid.

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